## Robot Dynamics and Control Laboratory Report No.1\*

Week: 1-5 Date: 5/10/20 Name: Annisa Dea Rachmantya

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In-laboratory research work (*add lines as necessary*): From 4/17 to 5/8 did Python 3 for Robotics, Linux for Robotics, and ROS Basics in 5 Days lessons on Robot Ignite class On 5/5 worked from 22:30 to 24:30 (2 hours), working on topics quiz, lesson 4 On 5/6 worked from 19:30 to 21:30 (2 hours), lesson 5 On 5/6 worked from 23:30 to 01:00 (1.5hours), lesson 6 On 5/7 worked from 20:00 to 21:00 (1 hours), lesson 6 On 5/7 worked from 22:30 to 24:00 (1.5 hours), lesson 6 On 5/8 worked from 14:40 to 15:40 (1 hours), lab meeting, debugging lesson 6

A total of 9 hours of work at the laboratory\*\*.

In these weeks, I have finished two lessons on Robot Ignite Academy, the Python 3 for Robotics, and Linux for Robotics class. In both class I did not find any difficulties as it was a basic class.

Currently I am taking the ROS Basics in 5 Days lesson on Robot Ignite Academy, and I'm currently on lesson 6. I think in the online class, the concept of subscribers and messages are a bit vague to me, as I'm still not quite sure why we use them, and the explanations are a bit difficult to understand. In the exercise codes, the instructions are a bit too vague in my opinion, and they did not give us any answers on the exercises. This means that while the robot might work, I wouldn't know if there is a better way to write the code. Additionally, it would take a lot of time to debug the program and it could be frustrating, such as what I had gone through for exercise 3.2. I'm now doing exercise 3.3 and while my code does not return an error, the robot does not move. This means that I would have to debug this first before continuing to other exercises, as a lot of the cases the exercises in the later lessons correlate with the exercises in the past lessons.

<sup>\*</sup> Each EPBL-5 student must submit at least 7 reports for evaluation.

<sup>\*\*</sup> Every EPBL-5 student must study for the course for at least 9 hours per week (including the class hours).

<sup>\*\*\*</sup> Each EPBL-5 student must read at least 7 papers during the course time.

<sup>\*\*\*\*</sup> Every EPBL-5 student must make at least 3 presentations (including the final presentation).